VERITAS NetBackup Vault™ 4.5

Operator's Guide

for UNIX and Windows

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VERITAS

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Preface

The VERITAS mission for NetBackup 4.5 is to provide heterogeneous data protection solutions from the workgroup or departmental level to the enterprise level. NetBackup DataCenter 4.5 provides powerful functionality, flexibility, mainframe caliber robustness, and high performance in large enterprise environments. NetBackup 4.5 is a major new release in the NetBackup product family with significant enhancements in the area of scalability, application protection, disaster recovery, server-free and off-host backup, and integration with Backup Exec.

NetBackup Vault was created to simplify the processes of image duplication, off-site storage, and off-site retrieval for both storage administrators and systems operators. The *System Administrator's Guide* details the responsibilities of and explains procedures performed by the system administrator.

This *Operator's Guide* is intended for system operators and other users.

Organization

This guide is organized as follows:

- Chapter 1, "Introduction," explains the history and design of Vault.
- Chapter 2, "Operational Procedures," describes Vault tasks usually performed by the system operations staff.
- Chapter 3, "Vault Reports," describes the content of each report, and how to generate the reports.
- Appendix A, "Sample Vault Reports", provides a sample of each type of report available through NetBackup Vault 4.5.

Related Documents

The following documents provide related information. For a more detailed listing of NetBackup documents, refer to *NetBackup Release Notes*.

If you have a UNIX server, refer to these documents:

- *NetBackup Release Notes*

  Provides important information about NetBackup software, such as the platforms and operating systems that are supported and operating notes that may not be in the manuals or the online help.

- *NetBackup DataCenter System Administrator's Guide for UNIX*

  Explains how to configure and manage NetBackup DataCenter on a UNIX system.

- *NetBackup Troubleshooting Guide for UNIX*

  Provides troubleshooting information for UNIX-based NetBackup products.

If you have a Windows server, refer to these documents:

- *NetBackup Release Notes*

  Provides important information about NetBackup software, such as the platforms and operating systems that are supported and operating notes that may not be in the manuals or the online help.

- *NetBackup DataCenter System Administrator's Guide for Windows*

  Explains how to configure and manage NetBackup DataCenter on a Windows server system.

- *NetBackup Troubleshooting Guide for Windows*

  Provides troubleshooting information for Windows-based NetBackup products.

Online Documentation

On Windows

The released software contains on-line PDF and ASCII versions of these release notes and a readme file for the client. If you choose to install the documentation during setup, NetBackup installs these documents in the following locations on your disk:

- *install_path*`\Help\`

  Adobe Acrobat Portable Document Format (PDF) copies of all related documents, including these release notes.

- The readme files on *install_path*`\NetBackup\ are:`

- `Readme.txt` (The `Readme.txt` file (ASCII format) may be slightly more up-to-date than the printed and `pdf` copies of the release notes.)
- `Readme_Client.txt`
- `Readme_Server.txt`
- `Readme_SMS.txt`
- `Readme_Win2000.txt`

On UNIX

The product CD-ROM also contains PDF copies of these release notes and other documents.

Note You will need Adobe Acrobat Reader to view the PDF documents. The latest version of Acrobat Reader is available on the Adobe web site: `http://www.adobe.com`.
VERITAS assumes no responsibility for the correct installation or use of the reader.

On the Support Web Site

Copies of NetBackup documentation are also available on the VERITAS support web site:

1. Go to the VERITAS support web page

   `www.support.veritas.com/`

2. In the **VERITAS Support Product List**, choose **NetBackup Products**.
3. A page appears with a list of the NetBackup products. Choose **NetBackup BusinesServer** or **NetBackup DataCenter**.
4. The documents page appears. Choose the document you want.

Conventions

The following explains typographical and other conventions used in this guide.

Type Style

Typographic Conventions

Typeface	Usage
`Bold fixed width`	Input. For example, type **`cd`** to change directories.
`Fixed width`	Paths, commands, filenames, or output. For example: The default installation directory is `/opt/VRTSxx`.
Italics	Book titles, new terms, or used for emphasis. For example: *Do not* ignore cautions.
Sans serif (italics)	Placeholder text or variables. For example: Replace *filename* with the name of your file.
Serif (no italics)	Graphical user interface (GUI) objects, such as fields, menu choices, etc. For example: Enter your password in the **Password** field.

Notes and Cautions

Note This is a Note. Notes are used to call attention to information that makes using the product easier or helps in avoiding problems.

Caution This is a Caution. Cautions are used to warn about situations that could cause data loss.

Key Combinations

Some keyboard command sequences use two or more keys at the same time. For example, holding down the **Ctrl** key while pressing another key. Keyboard command sequences are indicated by connecting the keys with a plus sign. For example:

Press Ctrl+t

Command Usage

The following conventions are frequently used in the synopsis of command usage.

brackets [ ]

The enclosed command line component is optional.

Vertical bar or pipe (|)

Separates optional arguments from which the user can choose. For example, when a command has the following format:

`command` *arg1*|*arg2*

the user can use either the *arg1* or *arg2* variable.

Terms

The terms listed in the table below are used in the VERITAS NetBackup documentation to increase readability while maintaining technical accuracy.

Term	Definition
Microsoft Windows, Windows	Terms used as nouns to describe a line of operating systems developed by Microsoft, Inc. A term used as an adjective to describe a specific product or noun. Some examples are: Windows 95, Windows 98, Windows NT, Windows 2000, Windows servers, Windows clients, Windows platforms, Windows hosts, and Windows GUI. Where a specific Windows product is identified, then only that particular product is valid with regards to the instance in which it is being used. For more information on the Windows operating systems that NetBackup supports, refer to the VERITAS support web site at `http://www.support.veritas.com`.
Windows servers	A term that defines the Windows server platforms that NetBackup supports; those platforms are: Windows NT and Windows 2000.
Windows clients	A term that defines the Windows client platforms that NetBackup supports; those platforms are: Windows 95, 98, ME, NT, 2000, XP (for 32- and 64-bit versions), and LE.

Getting Help

For updated information about this product, including system requirements, supported platforms, supported peripherals, and a list of current patches available from Technical Support, visit our web site:

```
http://www.support.veritas.com/
```

VERITAS Customer Support has an extensive technical support structure that enables you to contact technical support teams that are trained to answer questions to specific products. You can contact Customer Support by sending an e-mail to support@veritas.com, or by finding a product-specific phone number from the VERITAS support web site. The following steps describe how to locate the proper phone number.

1. Open `http://www.support.veritas.com/` in your web browser.
2. Click **Contact Support**. The *Contacting Support Product List* page appears.
3. Select a product line and then a product from the lists that appear. The page will refresh with a list of technical support phone numbers that are specific to the product you just selected.

Accessibility

NetBackup contains features that make the user interface easier to use by people who are vision impaired and by people who have limited dexterity. Accessibility features include:

- Support for assistive technologies such as screen readers and voice input (Windows servers only)
- Support for keyboard (mouse-less) navigation using accelerator keys and mnemonic keys

For more information about accessibility in NetBackup, see the NetBackup *System Administrator's Guide*.

Introduction 1

This chapter introduces NetBackup Vault and provides information about the product's background, design, and use.

Background

Vault was developed as a utility program for use with NetBackup. Its purpose was to assist in disaster recovery by creating duplicate copies of backup tapes and of the NetBackup catalog. With NetBackup Vault 4.5 you can select originals or copies made using Inline Tape Copy for vaulting as well as creating duplicates to vault.

If backup tapes are destroyed at a primary data center location, Vault ensures that copies of selected backups are available at an off-site location. Vault keeps track of the copies and requests these tapes to be returned from the off-site location after a specified period of time.

The operational procedures in this guide document how to remove tapes from the robotic libraries, run Vault reports, compare the tapes and the reports, and send the tapes to an off-site vendor.

The primary tool used by the Vault operator is `vltopmenu`, a menu user interface (MUI). This interface is documented in Chapter 2.

Administration and Operations Tasks

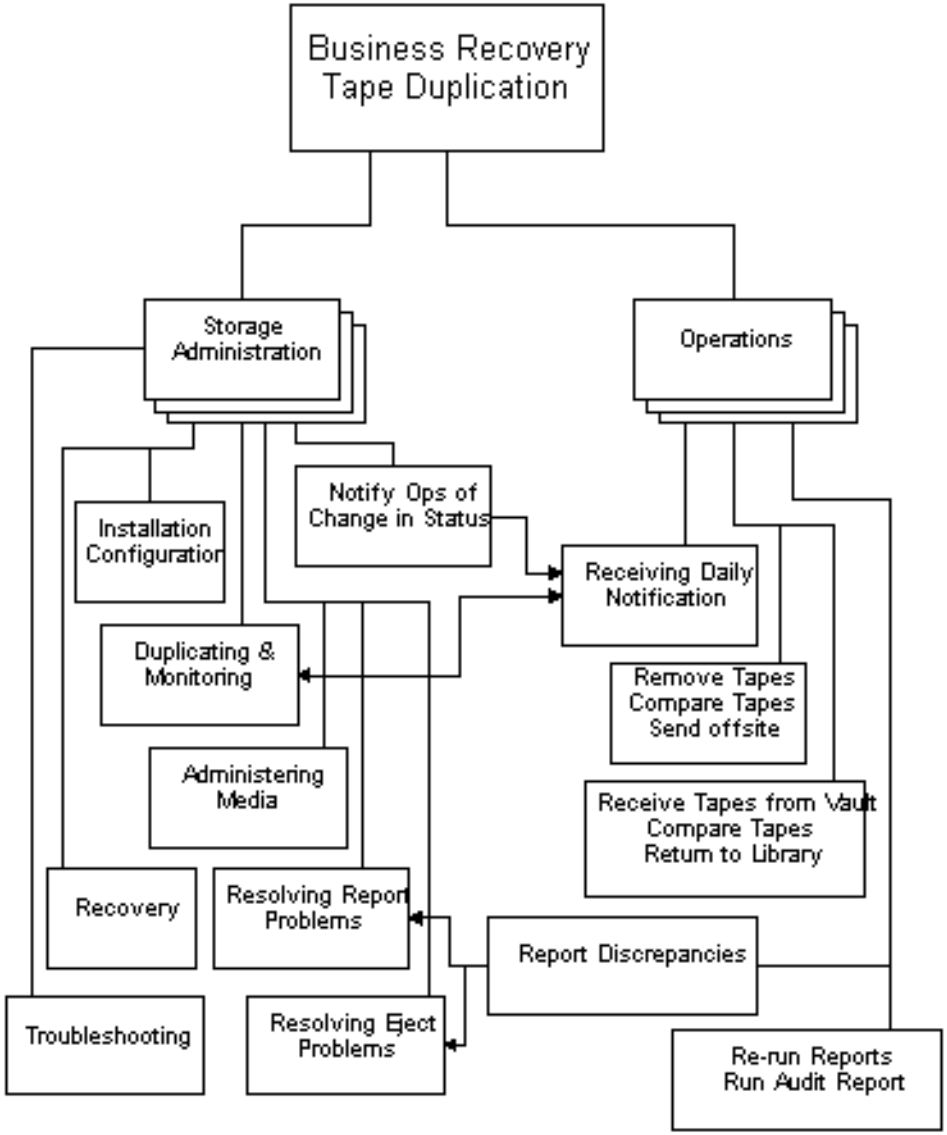
Vault was designed to simplify the job of backup duplication for both storage administration and storage operations. With NetBackup Vault 4.5 you can select originals or copies made using Inline Tape Copy for vaulting as well as creating duplicates to vault.

We summarize responsibilities for both storage administration and storage operations in the table below to help system operations staff understand how to gain necessary support. Detailed operations instructions are provided in the next chapter.:

Table 1: Vault Tasks

Staff Responsibilities	
Storage Administration	**Storage Operations**
◆ Installation and configuration of Vault.	◆ Receiving daily notification of session completion.
◆ Running and monitoring daily Vault sessions to ensure they complete.	◆ Removing off-site tapes from robotic libraries.
◆ Administering tape media to ensure sufficient media available for each day's duplicates.	◆ Comparing off-site tapes to be sent from library with report to send to off-site vendor.
◆ Resolving conflicts between printed reports and off-site vendor media status.	◆ Sending off-site tapes to off-site vendor.
◆ Resolving issues about tapes improperly ejected.	◆ Receiving returned tapes from off-site vendor.
◆ Manually recovering media.	◆ Comparing returned tapes with report from off-site vendor.
	◆ Inserting returned tapes into robotic libraries.
	◆ Reporting discrepancies between reports, and the tapes on-hand to Storage administration.
	◆ Re-running reports as needed.
	◆ Periodic auditing of media on site.

Operational Design



Summary of Storage Administration Responsibilities

This section provides a brief synopsis of the Vault-related tasks storage administration is responsible for.

Installing Vault

Storage Administration installs Vault on a NetBackup master server.

UNIX: Vault is installed in the following directories:

`/usr/openv/netbackup/bin` and `/usr/openv/netbackup/db/vault`

The directory `/usr/openv/netbackup/vault` holds temporary working results for Vault sessions.

Windows: Vault is installed in the following directories:

`install_path``\NetBackup\bin` and*`install_path`*`\NetBackup\db\vault`

The directory*`install_path`*`\netbackup\vault` holds temporary working results for Vault sessions.

For more information on how to install Vault, please refer to the NetBackup Vault 4.5 *System Administrator's Guide*.

Storage Administration accesses Vault through the NetBackup Administration Console, or through the Vault MUI `vltadm`.

Configuring Vault

Storage Administration provides configuration information in profiles, which replace the parameter files in previous versions of Vault. These profiles provide criteria on which Vault selects backups to duplicate. Vault 4.5 criteria can also specify the Inline Tape Copy feature, or select original images to send off site.

A standard Vault configuration allows a site to duplicate tapes without using network bandwidth, because tapes are duplicated on the same media server as the original backup occurred.

Monitoring Vault

The session directory generated for each vault session logs information for the session in two log files. The file `detail.log` contains a step-by-step account of each action performed for the session. The `summary.log` file contains a brief description of the vault session, and results of the session. If email notification is enabled in the profile, the information in this file is appended to the email.

Note For legacy users: the `detail.log` file used to be called `bpvault.all.output`.

Vault maintains its session log files for a particular session in the directory for that session. The directory is located in the following path:

- UNIX: `/usr/openv/netbackup/vault/sessions/`*vault_name*/sid*xxx*
- Windows: `<`*install_path*`>\netbackup\vault\sessions\`*vault_name*`\sid`*xxx*

where *vault_name* is the name of the vault used for this session and

where xxx is the unique session identifier that Vault assigns to each vault session.

The session identifier starts at 1 the first time Vault runs, and is incremented by one for each new session. The session identifier for a particular vault can be found by looking at the Activity Monitor entry for that session.

Administering Media

Storage Administration determines which volume pools and volume groups will hold the media, and must allocate sufficient media for vaulting needs.

Notify Operations of Change in Status

Storage Administration must report any change in daily run status to Operations. In most situations, Vault jobs are scheduled to run each day, and Operations through e-mail. If duplications are postponed for some reason, Storage Administration should notify Operations is automatically notified of the status of the job through email or over the phone by Storage Administration.

Summary of Operations Responsibilities

This section briefly summarizes the responsibilities of the operators responsible for vault jobs.

Operational Access to Vault

Operational access to Vault is provided through a menu user interface called `vltopmenu`.

The Vault MUIs reside in the following directory:

UNIX: `/usr/openv/netbackup/bin`

Windows: *`install_path`*`\NetBackup\bin`

Operational Procedures 2

This chapter provides detailed instructions for each of the Vault operational procedures, and explains how to run Vault reports.

Summary of Operational Procedures

- Receive daily notification of completed Vault sessions.
- Remove tapes from library.
- Compare ejected tapes with report.
- Send tapes off-site.
- Receive expired tapes from off-site vendor (daily or weekly).
- Compare tapes received with session status, and notify storage administration of any discrepancies.
- Re-run reports, if necessary.
- Run the audit report, and notify storage administration of any discrepancies.
- Resolve eject problems by manually ejecting tapes.

Receiving Vault Reports

Each time the vaulting process is run, reports are sent to various staff members to notify them that vaulting is finished. A copy of the daily *Picking List for Robot* report should be automatically emailed to the Operations team. This report is meant to notify Operations that a job has completed, reports are being sent to the printer, and that tapes are being ejected from the library. Contact Storage Administration if Operations does not receive the notification.

▼ **Follow these steps when you receive the report:**

1. Determine who is responsible for processing the ejected tapes.
2. Retrieve printed reports from the assigned printer, if applicable.
3. Retrieve ejected tapes from the library doors.
4. Prepare tapes for off-site storage.
5. Compare ejected tapes with the automatic notification of session received via email.
6. Work with Storage Administration to resolve any discrepancies.

If you do not receive the reports by a predetermined time it may be difficult to process the tapes in time for off-site vendor delivery and pickup. Contact Storage Administration to determine if there are any problems with a given vault session. They can monitor the current jobs and interrupt them to allow the session to finish on time.

You should receive prior notification if Storage Administration decides to postpone the vaulting process for one or more days.

Removing Tapes from a Library

A robot places ejected tapes into one of its media access ports (MAP), one set of tapes at a time. You must remove all ejected tapes before the robot will process the next set of tapes. You may need to wait while the robot places the next set of tapes in the door depending on how many tapes are ejected for that session.

If more media are selected for eject than will fit in the media access port (MAP), then the Vault job will not perform an automatic eject. After the job finishes, the operator will need to manually eject the media and generate the reports. Manual eject and manual reporting must be done using `vltopmenu`.

The robot should eject the tapes in order of Media ID and Slot ID. Vault assigns a new Slot ID on a session-by-session basis, in Media ID order. The order of ejected tapes should match the order tapes are listed on the *Picking List for Robot* report as it is organized by Slot ID. If off-site slot IDs from tapes that have returned from the vault are reused, however, the order may not match.

Comparing Tapes with Reports to Send to the Off-site Vault

There are several reports you will refer to in processing daily work. We recommend that you send both printed and email copies of all reports to staff members involved.

- The *Picking List for Robot* report documents the tapes you must remove from the robot. It lists the Media ID, Slot ID, Date Assigned, and Expiration dates. This report should list the same tapes that the robot has ejected. The Media ID should match the tape label. Slot ID should be in ascending order, and should not match any slot in use at the off-site vendor, nor any slot used by a tape in transit to or from the off-site vendor. Slot IDs are reassigned only after the tape has been physically returned to the robot and after they have been left in the robot for one day. The Date Assigned should be the same day. Expiration dates will vary depending on the retention period of the backup policy. If the report does not list any media, then Vault did not eject any media during this session.The information on the *Distribution List for Vault* report is the same as the information on the *Picking List for Robot*, but is intended for distribution to the off-site vendor with the tape batch.
- The *Picking List for Vault* report shows tapes requested for return from the off-site vendor. Provide the off-site vendor with a copy of this report with each batch. The report will not list any tapes if no tapes have expired on the reporting day. Give a copy to the off-site vendor whether or not it lists any tapes.
- The *Distribution List for Robot* contains information on the same tapes as the *Picking List* for Vault report. These tapes will not arrive on site for at least one day. Make sure the report is available when the tapes arrive the following day. Do not file the report until the tapes are checked in.
- The *Inventory List for Vault* report shows all the tapes that will be in the off-site vault once the off-site vendor receives the daily batch, and they have removed all the tapes shown in the *Distribution List for Vault* report. Provide one copy of this report to the vendor with each batch. Place another copy in an easily accessible location.

Other reports may be printed after a vault session. The Storage Administration team should notify Operations of all reports that will be printed and which reports need to be sent off site. For example, the Administration team may print detailed distribution lists that show the actual data stored on each tape.

Note The tapes used for NetBackup catalog backups will not show an **Assigned** date, but rather display **NBDBTAPE**. The **Expiration Date** for these tapes will be that which is calculated as a return date during the assignment, normally anywhere from 7 to 14 days. The **#Images** and **KBytes** fields will display zero (0) because NetBackup is not aware of how much data was backed up during the catalog backup. Storage Administration can verify that a catalog backup is valid through NetBackup.

Sending Reports and Tapes to the Off-site Vendor

We suggest the following steps as a guideline only; your site may have different procedures in place. Once you have received all reports and compared the tapes intended for off-site storage to the reports, you must prepare the tapes and appropriate reports for pickup by the off-site vendor.

▼ To prepare tapes for pickup

1. Use only containers specified by Operations or Storage Administration.
2. Include the *Inventory List for Vault*, *Distribution List for Vault*, and *Picking List for Vault* reports.
3. Complete the off-site vendor pickup form. Note container numbers, vault number, and date of shipment.
4. File a copy of the *Picking List for Robot* report in an accessible location. Sign off for completion.
5. Place a copy of the *Distribution List for Robot* report in an accessible location. This report is a reference for returning tapes.

Receiving Tapes from the Off-site Vendor Vault

We suggest the following steps as a guideline only; your site may have different procedures in place. The off-site vendor will return tapes that have been requested, usually the preceding day. You need to compare the tapes received from the off-site vendor to the reports listing the tapes you expect to receive to ensure that you have received the full set of tapes.

▼ To compare tapes received to report

1. Find the *Distribution List for Robot* report. This is normally the previous day's report.
2. Compare the tapes you have received from the off-site vendor with report. Notify Storage Administration if there are any discrepancies which you cannot resolve with the off-site vendor.
3. Remove the tapes from the containers and enter them into the robot according to your normal operating procedures. Be sure not to skip any slots as the robot may not reload the tapes properly. If you are using Media Manager controlled robots (for example, TLD, TL8), run the inject process as specified by Storage Administration.

4. Sign off the report and file in the proper location.

5. You, or the person preparing or checking in the tapes must resolve all discrepancies (outgoing or returning). Do not file a report until you have resolved all discrepancies.

Report Discrepancies

If you find report discrepancies, we suggest you run one or more reports to audit the location of your media. One option is to run the *Full Inventory List for Vault*. Look for unassigned tapes that have been left in the off-site vaulting location, and look for expired media that has not been recalled.

Expired media may not be recalled in the following circumstances: A tape is only called back once. If a tape is not picked up (for example, if the report is not run, or if it is a holiday) on the day the report recalling it is generated, that tape's media ID does not appear on following reports, and the piece of media may be forgotten. Running the *Full Inventory List* report will provide information on media in the vault, and media in transit.

Re-running Reports

You may choose to re-run a report because you lost the original copy, or because you want updated information.

▼ **To rerun a report:**

1. Access the NetBackup master server for your site.

2. Once you are logged into the master server, run `vltopmenu` as follows:

   `vltopmenu` *`profile`*

   where *profile* is the name of the profile for which you want to re-run a report.

The defaults for `vltopmenu` will regenerate the reports for the most recent session. Select the report or reports you wish to rerun.

Printing Reports from a Previous Day

Change the session number to run a report from a previous day. Select **Change Session [2]**, and enter the number of the session for which you would like to re-run reports.

Sending Reports through Email

You may change the printer destination to allow the report to be sent through email. Select **Run Individual Reports [5]** , then **Change Print Command [p]** and enter the mail command as the printer, with appropriate subject header:

UNIX: `/usr/bin/mailx` *`username,username2,username-n`*

Where *username* is a valid user name to which you wish to send email.

Windows: configure the `nbmail.cmd` script in the `\bin` directory.

Then select the report you wish to email and Vault will send the report by email.

Saving a Report to a File

You may also change the printer destination to allow the report to be saved to a file. Select **Run Individual Reports [5]**, and then select the **Change Print Command [p]** option. Enter the following command, substituting *filename* with the name of the file you wish to save the report to:

UNIX: tee –a *filename*

Running the Audit Report

You can use the *Complete Inventory List for Vault* as an audit report. It prints out a full inventory of all media used for duplication of backups. First, it prints out all the media in the robot which is used for duplicates, and then all the media which is in the off-site vault. This information is printed in order by media ID. Storage Administration may choose to create another audit report which shows all the media in the robot along with its status if off-site, since this report only shows media used for vaulting, and not the media used for regular backups.

Resending Eject Commands (Manually Ejecting Tapes)

Choosing **Eject Media for This Session [3]** from `vltopmenu` allows you to resend the eject commands from a particular session.

Normally, this option is only used if the eject process was interrupted and certain media were not ejected from the library. This option would also be used if the number of tapes you needed to eject exceeded the size of the MAP. If there are still discrepancies between ejected media and the Vault reports after using this command, contact the Storage Administration team.

Injecting Tapes into Robot

Choosing **Inject Tapes into Robot [6]** moves tapes from the media access port (MAP) to the library slots and updates the volume database.

If any problems occur during this process, contact Storage Administration.

Using vltopmenu

`vltopmenu` is the Vault operations menu. It allows you to eject tapes and print reports for one or more Vault sessions. For information about each report, please refer to the "Vault Reports" chapter.

Upon start up, the menu will show no profile. You need to select the profile or, if the profile name is not unique, identify the *robot_number/vault_name/profile* combination before you begin to use the menu. If you do not change the vault or the session specified, these `vltopmenu` options will apply to the most recent session.

You can view the results of each operation you execute with the menu in a log file. The name and location of the log file is located at the end of the output for each command.

For example, if you choose **Eject Media for This Session [3]**, the output is:

```
vlteject Started

vlteject Completed

The results of this operation have been logged in the following
file:

UNIX:/usr/openv/netbackup/vault/sessions/vlteject_status/details.l
og.timestamp

Windows:install_path\netbackup\vault\sessions\vlteject_status\deta
ils.log.timestamp
```

Note Do not run another session for this vault while using this menu.

▼ **To access vltopmenu**

The Vault MUIs reside in the following directory:

UNIX: `/usr/openv/netbackup/bin/`

Windows: *`install_path`*`\NetBackup\bin\`

❖ The initial `vltopmenu` screen displays the current profile, session, and path for the `Print` command followed by the list of options. Type the number of the option you want to perform after the word **Selection** at the bottom of the menu.

The options are detailed below.

- Change Profile [1]

  This option allows the user to perform the actions allowed in this menu on any profile, one-at-a-time, without closing the application.

- Change Session [2]

  You may need to run vltopmenu for a session other than the default session if you are trying to eject or report for a particular vault session.

- Eject Media for This Session [3]

  This option ejects tapes from this session.

- Run Reports for This Session [4]

  This step prints all the reports that are generated as part of this session (identified by the session ID and profile). The reports will be sent using the print command, using the options configured in the profile.

- Run Individual Reports [5]

  This step lists all the reports so that you can choose the reports to run. It also includes a Change Print Command option. The reports will be sent using the print command, unless you change the command.

Note The Print command for individual reports is configured at the command line; it does not receive configuration information from the profile.

- Inject Tapes into Robot [6]

  This option moves tape from the MAP to the library slot. When tape inject is occurring, the volume group changes to the robotic volume group.

- Consolidate All Reports [7]

  This option generates reports for any vault that has not had reports generated for a given session.

- Consolidate All Ejects [8]

  This option ejects media for any vault that has not had media ejected for a given session.

- Consolidate All Reports and Ejects [9]

  Consolidate ejects media from vault sessions and runs the corresponding reports as selected in a profile. Consolidate can:

  - Eject media and run reports for a single session as designated by vault and session parameters

- Eject media and run reports for the sessions within a vault for which these actions have not occurred.
- Eject media and run reports for the sessions for all vaults for which these actions have not occurred.

◆ Exit [q]

Use this option to quit the interface.

Vault Reports 3

This chapter describes the reports available in Vault. There are three general types of reports:

- Reports for media going off site,
- Reports for media coming on site,
- Detailed media reports.

In addition, there is a Recovery Report. We suggest you generate this report on a regular basis, as it is helpful in disaster recovery efforts.

Note In these reports, the tapes used for NetBackup catalog backups do not show a date in the **Assigned** field, but display the notation **NBDBTAPE**. The **Expiration date** field displays the date calculated as a return date during the assignment. The **#Images** and **KBytes** fields will display zero.

Reports for Media Going Off Site

The *Picking List for Robot* and *Distribution List for Vault* reports show the tapes that have been ejected from the robot and will be transported off site. The *Summary Distribution List for Vault* and the *Detailed Distribution List for Vault* provide more detailed information on the media to be sent off site.

Picking List for Robot

This report is sorted by media ID and should be used by the operations staff as a checklist for media that has been ejected from the robots. You can save the report for tracking purposes, or reprint it as long as the session directory still exists.

Distribution List for Vault

This report is sorted by off site slot number and should accompany the media that is destined for the off site vault. The vault vendor should use this report to verify that all the tapes listed were actually received.

Detailed Distribution List for Vault

This report is similar to the *Picking List from Robot* and *Distribution List for Vault* reports except that detailed information is listed for each media. This detail includes the client machines that have backups on this media, when the client was backed up, the NetBackup backup identifier for the backup job and the number of kilobytes stored in this NetBackup fragment.

Keep in mind that backup jobs may span multiple tapes, so it is possible to see duplicate detailed listings of a given backup job on more than one tape. True image recovery (TIR) information listed on this report is indicated by a "TIR" adjacent to the number of kilobytes. This report is very useful at a disaster recovery site. We recommend you send this report off site.

Summary Distribution List for Vault

This report is similar to the *Detailed Distribution List for Vault* report, except that the entry for each piece of media will list only a unique client, policy, schedule and date. That is, if multiple backup jobs for a given client, policy and schedule (usually seen with RDBMS backups or SAP backups) are written to the same tape on the same date, only one line of information will be printed out on this report. The *Detailed Distribution List* would show each of these backup jobs as a separate entry, which may generate a very long report. The *Summary Distribution List for Vault* report summarizes the information and presents it in a more compact form. This report is also very useful for disaster recovery situations; we recommend you send this report off site.

Reports for Media Coming On Site

The *Picking List for Vault* and *Distribution List for Robot* reports show the tapes that are being requested back from the off site vault. Vault will not generate these reports until the media have been ejected for the current Vault session.

Picking List for Vault

This report should be sent off site to the vault vendor. Tapes are listed on this report because Vault determined that they are in the appropriate off site volume group and that they no longer contain valid NetBackup images. When Vault identifies these tapes, it changes the date requested field within the Media Manager description field for the media. It then prints out the media ID on this report along with the date requested. Expired media will only appear on the report generated on the date the media expired. If no report is printed for that date, you can access a list of expired off site media by generating the *Complete Inventory List for Vault* report.

Distribution List for Robot

This report is identical to the *Picking List for Vault*, except that it has a different report title. Retain this report on site to use as a checklist for the media returned from the off site vault.

Detailed Media Reports

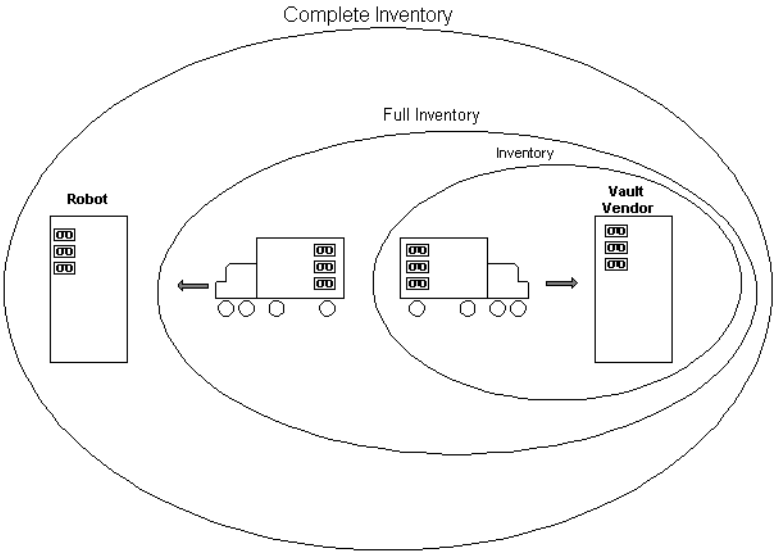
Vault will not generate these reports until the media have been ejected.

There are three inventory list reports, related in the following way:

- The Inventory List is the least comprehensive of the three.
- The Full Inventory List contains everything in the Inventory List Report, and more.
- The Complete Inventory List contains everything in the Full Inventory List Report, and more.

Graphic Illustration of Scope of Reports

The different scopes of the reports is demonstrated by the illustration below:



Inventory List for Vault

The *Inventory List for Vault* report shows all media that are currently off site at the vault vendor after the current batch of tapes have been processed and sent off site. This list of tapes is generated by checking the description field for the media, the volume pool and the off-site volume group. If any tapes have been requested to be returned from the vault vendor, they will not be displayed on this report, but on the *Full Inventory List* report. This report is a sanity check for the vault vendor to verify that Vault and the vault vendor agree on the tapes currently off site. We recommend you send this report to your vault vendor to perform this verification.

Full Inventory List for Vault

This report is similar to the *Inventory List for Vault* report except that it includes any tapes that have been requested back from the off-site vault vendor. Normally, this report is not generated on a daily basis. Rather, the *Inventory List for Vault* report is usually sent to the vault vendor to perform verification. The *Full Inventory List for Vault* contains the same information as *Inventory List for Vault* plus information about tapes in transit.

Complete Inventory List for Vault

This report shows all tapes within the vault volume pool. If the tapes are currently at the vault, the code V is shown in the Location field, while the code R appears for tapes that are currently within the robot. The *Complete Inventory List for Vault* report contains the same information as the *Full Inventory List* for Vault plus information about on-site tapes.

Note Tapes within the vault volume pool must belong to either the off-site volume group or the Robotic volume group, or they will not appear on this report.

Recovery Report for Vault

This report shows all policies defined on a NetBackup master server and all media that is required for restores between a given set of dates. The title of the report displays the date range covered by the report.

This report includes the NetBackup catalog tapes that are currently off site. For the NetBackup catalog media to be listed in this section, their volume group must match the volume group specified in the off-site volume group. Only NetBackup catalog media that are assigned will appear on this report.

Sample Vault Reports A

Picking List for Robot

Below is a sample of the *Picking List for Robot* report, which shows the tapes to be removed from the robot.

```
Sunday, December 16, 2001      Vault Report    Page: 1

Picking List for Robot (V1)     Session: sid9

MediaId SLOT  ASSIGNED  EXPIRATION  #IMAGES  KBYTES

A00028  0003 12/16/2001  12/28/2001     2   1483488
A00029  0004 12/16/2001  12/28/2001     1   1526432
A00030  0005 12/16/2001  12/28/2001     2   4200096
A00031  0006 12/16/2001  12/28/2001     1   1283040
A00032  0007 12/16/2001  12/28/2001     3   1322528
A00033  0008 12/16/2001  12/28/2001     3   1337184
A00034  0009 12/16/2001  12/28/2001     1    152992
A00035  0010 12/16/2001  12/28/2001     1   1301088
A00036  0011 NBDBTAPE 12/28/2001 0 0

TOTALS
MediaId #IMAGES   KBYTES
9  14  12606848
```


Distribution List for Vault

Below is a sample of the *Distribution List for Vault* report, which is identical to the *Picking List for Robot* report except that the tapes are sorted by slot number. This report should be sent off site to the vault vendor.

```
Sunday, December 16, 2001      Vault Report    Page: 1

Distribution List for Vault ARCUS: (V1)       Session: sid9


SLOT  MediaId ASSIGNED    EXPIRATION  #IMAGES  KBYTES

0003  A00028  12/16/2001  12/28/2001          2    1483488
0004  A00029  12/16/2001  12/28/2001          1    1526432
0005  A00030  12/16/2001  12/28/2001          2    4200096
0006  A00031  12/16/2001  12/28/2001          1    1283040
0007  A00032  12/16/2001  12/28/2001          3    1322528
0008  A00033  12/16/2001  12/28/2001          3    1337184
0009  A00034  12/16/2001  12/28/2001          1     152992
0010  A00035  12/16/2001  12/28/2001          1    1301088
0011  A00036  NBDBTAPE    12/28/2001          0          0

  TOTALS
  MediaId #IMAGES KBYTES
  9 14 12606848
```

Distribution List for Robot

Below is a sample of the *Distribution List for Robot* report, which shows the tapes that will be returned from the off-site vault on the next pick-up/drop-off day. This report should be kept in a central location until these tapes are returned from the vault vendor.

```
Sunday, December 16, 2001     Vault Report    Page: 1

Distribution List for Robot (V1)      Session: sid9


SLOT     MediaId LAST MNT   LAST SID           REQUESTED

0001 A00026 12/01/2001 4 12/16/2001
0002 A00027 12/01/2001 4 12/16/2001

  TOTAL MediaId
  2
```


Picking List for Vault

Below is a sample of the *Picking List for Vault* report, which is identical to the *Distribution List for Robot* report except for the report header. This report indicates which tapes are being requested back from the off-site vault. This report should be given to the vault vendor so that these tapes return on the following pick-up/drop-off day.

```
Sunday, December 16, 2001     Vault Report    Page: 1

  Picking List for Vault ARCUS: (V1) Session: sid9


  SLOT MediaId LAST MNT   LAST SID  REQUESTED


  0001 A00026  12/01/2001  4  12/16/2001
  0002 A00027  12/01/2001  4  12/16/2001

  TOTAL MediaId
  2
```

Inventory List for Vault

Below is a sample of the *Inventory List for Vault* report, which is shows all tapes that are currently stored at the off-site vault including those that are being transported off site today. This report should be sent to the vault vendor to verify that their records match.

```
Sunday, December 16, 2001     Vault Report    Page: 1

  Inventory List for Vault ARCUS: (V1)      Session: sid9


  SLOT MediaId ASSIGNED   EXPIRATION


  0003 A00028  12/16/2001  12/28/2001
  0004 A00029  12/16/2001  12/28/2001
  0005 A00030  12/16/2001  12/28/2001
  0006 A00031  12/16/2001  12/28/2001
  0007 A00032  12/16/2001  12/28/2001
  0008 A00033  12/16/2001  12/28/2001
  0009 A00034  12/16/2001  12/28/2001
  0010 A00035  12/16/2001  12/28/2001
  0011 A00036  NBDBTAPE  12/28/2001

  VAULT TOTALS
  MediaId #IMAGES   KBYTES
  9  14  12606848
```


Full Inventory List for Vault

Below is a sample of the *Full Inventory List for Vault* report, which is identical to the *Inventory List for Vault* report except that any requested media are also shown. These requested media should have already been requested back from the vault and have not been detected in the robot at this time (that is, they are still in transport from vault vendor, or have not been injected into the library).

```
Sunday, December 16, 2001     Vault Report    Page: 1

  Full Inventory List for Vault ARCUS: (V1)       Session: sid9


  SLOT MediaId ASSIGNED   EXPIRATION  REQUESTED

  0001 A00026  12/16/2001
  0002 A00027  12/16/2001
  0003 A00028  12/16/2001  12/28/2001
  0004 A00029  12/16/2001  12/28/2001
  0005 A00030  12/16/2001  12/28/2001
  0006 A00031  12/16/2001  12/28/2001
  0007 A00032  12/16/2001  12/28/2001
  0008 A00033  12/16/2001  12/28/2001
  0009 A00034  12/16/2001  12/28/2001
  0010 A00035  12/16/2001  12/28/2001
  0011 A00036  NBDBTAPE  12/28/2001

  VAULT TOTALS
  MediaId #IMAGES   KBYTES
  11  14  12606848
```

Complete Inventory List for Vault

Below is a sample of the *Complete Inventory List for Vault* report, where LOC corresponds to the location of the tapes (R for robot, V for off-site vault). This report shows all tapes that are believed to be off site (either in transport or at the vault) and those that are currently on site within the tape library.

```
Sunday, December 16, 2001      Vault Report    Page: 1

Complete Inventory List for Vault (V1)      Duplicate Pool:
Duplicates


  MediaId SLOT  LOC SID ID ASSIGNED  EXPIRATION  REQUESTED

  A00037  0000 R
  A00038  0000 R
  A00039  0000 R
  A00197  0000 R
  A00198  0000 R
  A00199  0000 R
  A00223  0000 R
  A00224  0000 R
  A00225  0000 R
  A00026  0001 V 4     12/16/2001
  A00027  0002 V 4     12/16/2001
  A00028  0003 V 9 12/16/2001  12/28/2001
  A00029  0004 V 9 12/16/2001  12/28/2001
  A00030  0005 V 9 12/16/2001  12/28/2001
  A00031  0006 V 9 12/16/2001  12/28/2001
  A00032  0007 V 9 12/16/2001  12/28/2001
  A00033  0008 V 9 12/16/2001  12/28/2001
  A00034  0009 V 9 12/16/2001  12/28/2001
  A00035  0010 V 9 12/16/2001  12/28/2001
  A00036  0011 V 9 NBDBTAPE  12/28/2001

ROBOT TOTALS
  MediaId #IMAGES   KBYTES
  9    0  0

  VAULT TOTALS
  MediaID #IMAGES   KBYTES
  11  14  12606848
```


Detailed Distribution List for Vault

Below is a sample of the *Detailed Distribution List for Vault* report, which shows the individual client backups recorded on each media. Each backup image fragment includes the backup client, backup identifier, backup date and time and number of kilobytes backed up.

```
Sunday, December 16, 2001      Vault Report    Page: 1

Detailed Distribution List for Vault ARCUS: (V1) Session: sid9

SLOT  MediaId ASSIGNED  EXPIRATION  #IMAGES  KBYTES
   CLIENT                                    KBYTES
      BACKUP TIME               BACKUP ID

0003  A00028  12/16/2001  12/28/2001 2    1483488
   svr1 1172032
      Fri Dec 14 19:06:16 2001   svr1_1008355176
   svr2                                      311456
      Fri Dec 14 19:06:19 2001   svr2_1008355179

0004  A00029  12/16/2001  12/28/2001          1    1526432
   svr3                                     1526432
      Fri Dec 14 19:06:18 2001   svr3_1008355178

0005  A00030  12/16/2001  12/28/2001          2    4200096
   svr4                                     4113280
      Fri Dec 14 19:06:20 2001   svr4_1008355180
   svr5                                       86816
      Fri Dec 14 19:06:24 2001   svr5_1008355184

0006  A00031  12/16/2001  12/28/2001          1    1283040
   svr3                                     1283040
      Fri Dec 14 19:06:18 2001   svr3_1008355178

0007  A00032  12/16/2001  12/28/2001          3    1322528
   svr3                                      588256
      Fri Dec 14 19:06:18 2001   svr3_1008355178
   svr6                                        293408
      Fri Dec 14 19:06:22 2001   svr6_1008355182
   svr7                                       440864
      Fri Dec 14 19:11:32 2001   svr7_1008355492

0008  A00033  12/16/2001  12/28/2001          3    1337184
   svr2                                       1154784
      Fri Dec 14 19:06:19 2001   svr2_1008355179
```

```
 svr8                                              172896
    Fri Dec 14 19:06:23 2001   svr8_1008355183
 svr9                                               9504
    Fri Dec 14 19:16:57 2001   svr9_1008355817

0009  A00034  12/16/2001  12/28/2001          1     152992
 svr7                                          152992
    Fri Dec 14 19:11:32 2001   svr7_1008355492

0010  A00035  12/16/2001  12/28/2001          1    1301088
 svr5                                         1301088
    Fri Dec 14 19:06:24 2001   svr5_1008355184

0011  A00036  NBDBTAPE  12/28/2001          0          0


TOTALS
MediaId #IMAGES   KBYTES
9  14  12606848
```


Summary Distribution List for Vault

Below is a sample of the *Summary Distribution List for Vault* report, which shows the detailed information on each tape with each unique client, policy, schedule and date. If multiple fragments exist (or multiple images in the case of RDBMS backups) for a given client, policy, schedule and date, the information will be listed once on a given media.

```
Sunday, December 16, 2001      Vault Report    Page: 1

Summary Distribution List for Vault ARCUS: (V1)        Session: sid9

SLOT  MediaId  ASSIGNED  EXPIRATION  #IMAGES  KBYTES
      CLIENT             POLICY                SCHEDULE     DATE

0003  A00028  12/16/2001  12/28/2001         2    1483488
      svr1               SystemBkups          Full        12/14/2001
      svr2               SystemBkups          Full        12/14/2001

  0004  A00029  12/16/2001  12/28/2001          1    1526432
      svr3               SystemBkups          Full        12/14/2001

  0005  A00030  12/16/2001  12/28/2001          2    4200096
      svr4               SystemBkups          Full        12/14/2001
      svr5               SystemBkups          Full        12/14/2001

  0006  A00031  12/16/2001  12/28/2001          1    1283040
      svr3               SystemBkups          Full        12/14/2001

  0007  A00032  12/16/2001  12/28/2001          3    1322528
      svr3               SystemBkups          Full        12/14/2001
      svr6               SystemBkups          Full        12/14/2001
      svr7               SystemBkups          Full        12/14/2001

  0008  A00033  12/16/2001  12/28/2001          3    1337184
      svr2               SystemBkups          Full        12/14/2001
      svr8               SystemBkups          Full        12/14/2001
      svr9               SystemBkups          Full        12/14/2001

  0009  A00034  12/16/2001  12/28/2001          1     152992
      svr7               SystemBkups          Full        12/14/2001

0010 A00036  NBDBTAPE  12/28/2001          0          0

  TOTALS
  MediaId #IMAGES   KBYTES
  9  14  12606848
```

Recovery Report for Vault

Below is a sample of the *Recovery Report for Vault* report, which shows the media required to recover a given client between a range of dates for each policy in the NetBackup configuration. If multiple copies were made, then each copy would also be listed including the media ID which was used (copy 1 corresponds to the primary copy, copy 2 corresponds to the duplicate). The date listed indicates when the original backup image was created.

```
Wednesday, August 12, 2001     Vault Report    Page: 1

Recovery Report for Vault Arcus: (V1)

 To recover all policies from date 07/24/2001 to date 08/12/2001
 the following tapes are necessary:


 Policy: svr1all
   Client: svr1  Sched: Incr  Media: GC0080  Density: dlt  Date:
08/10/01  Copy: 1
   Client: svr1  Sched: Incr  Media: GC0080  Density: dlt  Date:
08/08/01  Copy: 1
   Client: svr1  Sched: UserTest  Media: GC0046  Density: dlt  Date:
08/07/01  Copy: 1
   Client: svr1  Sched: Incr  Media: GC0058  Density: dlt  Date:
08/06/01  Copy: 1
   Client: svr1  Sched: Incr  Media: GC0058  Density: dlt  Date:
08/05/01  Copy: 1
   Client: svr1  Sched: Full  Media: GC0058  Density: dlt  Date:
08/04/01  Copy: 1
   Client: svr1  Sched: Incr  Media: GC0058  Density: dlt  Date:
08/04/01  Copy: 1
   Client: svr1  Sched: Incr  Media: GC0058  Density: dlt  Date:
08/03/01  Copy: 1
   Client: svr1  Sched: Incr  Media: GC0058  Density: dlt  Date:
08/02/01  Copy: 1
   Client: svr1  Sched: Full  Media: GC0058  Density: dlt  Date:
08/01/01  Copy: 1
   Client: svr1  Sched: Incr  Media: GC0058  Density: dlt  Date:
08/01/01  Copy: 1
   Client: svr1  Sched: Incr  Media: GC0072  Density: dlt  Date:
07/30/01  Copy: 1
   Client: svr1  Sched: Incr  Media: GC0072  Density: dlt  Date:
07/29/01  Copy: 1
```


```
   Client: svr1  Sched: Incr  Media: GC0072  Density: dlt  Date:
07/28/01  Copy: 1
   Client: svr1  Sched: Full  Media: GC0072  Density: dlt  Date:
07/27/01  Copy: 1
   Client: svr1  Sched: Incr  Media: GC0072  Density: dlt  Date:
07/27/01  Copy: 1
   Client: svr1  Sched: Incr  Media: GC0072  Density: dlt  Date:
07/25/01  Copy: 1
   Client: svr1  Sched: Full  Media: GC0072  Density: dlt  Date:
07/24/01  Copy: 1
 Policy: svr2all
   Client: svr2  Sched: Incr  Media: GB0012  Density: dlt  Date:
08/11/01  Copy: 1
   Client: svr2  Sched: Incr  Media: GB0012  Density: dlt  Date:
08/10/01  Copy: 1
   Client: svr2  Sched: Incr  Media: GB0012  Density: dlt  Date:
08/09/01  Copy: 1
   Client: svr2  Sched: Full  Media: GB0017  Density: dlt  Date:
08/08/01  Copy: 1
   Client: svr2  Sched: Incr  Media: GB0012  Density: dlt  Date:
08/06/01  Copy: 1
   Client: svr2  Sched: Full  Media: GB0017  Density: dlt  Date:
08/01/01  Copy: 1
   Client: svr2  Sched: Incr  Media: GB0017  Density: dlt  Date:
08/01/01  Copy: 1
   Client: svr2  Sched: Incr  Media: GB0017  Density: dlt  Date:
07/30/01  Copy: 1
   Client: svr2  Sched: Full  Media: GB0012  Density: dlt  Date:
07/29/01  Copy: 1
   Client: svr2  Sched: Incr  Media: GB0014  Density: dlt  Date:
07/28/01  Copy: 1
 Policy: svr3backtrack
 Policy: svr3db1
   Client: svr3  Sched: Incr  Media: GC0075  Density: dlt  Date:
08/11/01  Copy: 1
   Client: svr3  Sched: Incr  Media: GC0075  Density: dlt  Date:
08/10/01  Copy: 1
   Client: svr3  Sched: Incr  Media: GC0075  Density: dlt  Date:
08/09/01  Copy: 1
   Client: svr3  Sched: Full  Media: GC0067  Density: dlt  Date:
08/08/01  Copy: 1
   Client: svr3  Sched: Full  Media: GC0078  Density: dlt  Date:
08/08/01  Copy: 1
   Client: svr3  Sched: Incr  Media: GC0075  Density: dlt  Date:
08/08/01  Copy: 1
   Client: svr3  Sched: Incr  Media: GC0068  Density: dlt  Date:
08/05/01  Copy: 1
```

```
   Client: svr3  Sched: Incr  Media: GC0075  Density: dlt  Date:
08/05/01  Copy: 1
   Client: svr3  Sched: Incr  Media: GC0068  Density: dlt  Date:
08/04/01  Copy: 1
   Client: svr3  Sched: Incr  Media: GC0069  Density: dlt  Date:
08/03/01  Copy: 1
   Client: svr3  Sched: Incr  Media: GC0078  Density: dlt  Date:
08/03/01  Copy: 1
   Client: svr3  Sched: Incr  Media: GC0059  Density: dlt  Date:
08/02/01  Copy: 1
   Client: svr3  Sched: Incr  Media: GC0068  Density: dlt  Date:
08/02/01  Copy: 1
   Client: svr3  Sched: Full  Media: GC0059  Density: dlt  Date:
08/01/01  Copy: 1
   Client: svr3  Sched: Incr  Media: GC0059  Density: dlt  Date:
08/01/01  Copy: 1
   Client: svr3  Sched: Incr  Media: GC0059  Density: dlt  Date:
07/30/01  Copy: 1
   Client: svr3  Sched: Incr  Media: GC0059  Density: dlt  Date:
07/29/01  Copy: 1
   Client: svr3  Sched: Full  Media: GC0059  Density: dlt  Date:
07/28/01  Copy: 1
   Client: svr4  Sched: Full  Media: GC0052  Density: dlt  Date:
08/01/01  Copy: 1
   Client: svr4  Sched: Incr  Media: GC0052  Density: dlt  Date:
08/01/01  Copy: 1
   Client: svr4  Sched: Incr  Media: GC0072  Density: dlt  Date:
08/01/01  Copy: 1
   Client: svr4  Sched: Incr  Media: GC0072  Density: dlt  Date:
07/30/01  Copy: 1
   Client: svr4  Sched: Incr  Media: GC0052  Density: dlt  Date:
07/29/01  Copy: 1
   Client: svr4  Sched: Full  Media: GC0062  Density: dlt  Date:
07/27/01  Copy: 1
   Client: svr4  Sched: Incr  Media: GC0062  Density: dlt  Date:
07/27/01  Copy: 1
   Client: svr4  Sched: Incr  Media: GC0062  Density: dlt  Date:
07/25/01  Copy: 1
   Client: svr4  Sched: Full  Media: GC0062  Density: dlt  Date:
07/24/01  Copy: 1
 Policy: svr5db2
   Client: svr5  Sched: Incr  Media: GA0192  Density: dlt  Date:
08/11/01  Copy: 1
   Client: svr5  Sched: Incr  Media: GA0192  Density: dlt  Date:
08/10/01  Copy: 1
   Client: svr5  Sched: Incr  Media: GA0192  Density: dlt  Date:
08/09/01  Copy: 1
```


```
   Client: svr5  Sched: Incr  Media: GA0180  Density: dlt  Date:
08/08/01  Copy: 1
   Client: svr5  Sched: Full  Media: GA0192  Density: dlt  Date:
08/07/01  Copy: 1
   Client: svr5  Sched: Full  Media: GA0200  Density: dlt  Date:
08/07/01  Copy: 1
   Client: svr5  Sched: Incr  Media: GA0200  Density: dlt  Date:
08/06/01  Copy: 1
   Client: svr5  Sched: Incr  Media: GA0200  Density: dlt  Date:
08/05/01  Copy: 1
   Client: svr5  Sched: Incr  Media: GA0200  Density: dlt  Date:
08/04/01  Copy: 1
   Client: svr5  Sched: Incr  Media: GA0200  Density: dlt  Date:
08/03/01  Copy: 1
   Client: svr5  Sched: Incr  Media: GA0180  Density: dlt  Date:
08/02/01  Copy: 1
   Client: svr5  Sched: Full  Media: GA0200  Density: dlt  Date:
08/01/01  Copy: 1
   Client: svr5  Sched: Incr  Media: GA0200  Density: dlt  Date:
08/01/01  Copy: 1
   Client: svr5  Sched: Incr  Media: GA0200  Density: dlt  Date:
07/30/01  Copy: 1
   Client: svr5  Sched: Incr  Media: GA0200  Density: dlt  Date:
07/29/01  Copy: 1
   Client: svr5  Sched: Incr  Media: GA0200  Density: dlt  Date:
07/28/01  Copy: 1
   Client: svr5  Sched: Full  Media: GA0200  Density: dlt  Date:
07/27/01  Copy: 1
   Client: svr5  Sched: Incr  Media: GA0180  Density: dlt  Date:
07/27/01  Copy: 1
   Client: svr5  Sched: Incr  Media: GA0200  Density: dlt  Date:
07/25/01  Copy: 1
   Client: svr5  Sched: Full  Media: GA0200  Density: dlt  Date:
07/24/01  Copy: 1


NetBackup Database Tapes Offsite in Vault Arcus

Media: A00002  Written: 08/10/2001  Expiration: 08/17/2001
Media: A00003  Written: 08/11/2001  Expiration: 08/18/2001
Media: A00005  Written: 08/12/2001  Expiration: 08/19/2001


Total NBU DB Media Offsite: 3
```

Picking List for Robot(Flat File Format)

Below is a sample of the *Picking List for Robot* report in flat file format. Most of the other standardVault reports can be generated in this format, which is used for importing into another database management system (for example, a mainframe tape management system). All fields are written in fixed lengths and no headers are included.

```
A00028 0003 12/16/2001 12/28/2001    2   1483488
A00029 0004 12/16/2001 12/28/2001    1   1526432
A00030 0005 12/16/2001 12/28/2001    2   4200096
A00031 0006 12/16/2001 12/28/2001    1   1283040
A00032 0007 12/16/2001 12/28/2001    3   1322528
A00033 0008 12/16/2001 12/28/2001    3   1337184
A00034 0009 12/16/2001 12/28/2001    1    152992
A00035 0010 12/16/2001 12/28/2001    1   1301088
A00036 0011 NBDBTAPE   12/28/2001    0         0
```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